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Systems, Man and Cybernetics, Part B, IEEE Transactions on
Volume 35, Issue 6, Dec. 2005 Page(s):1131 - 1143
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Woo Jin Oh; Yong Hoon Lee;
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Jonghun Park; Reveliotis, S.A.;
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Wang, X.M.; Lu, W.S.; Antoniou, A.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEE
Volume 51, Issue 9, Sept. 2003 Page(s):2446 - 2450
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Xiaohong Guan; Qiaozhu Zhai; Papalexopoulos, A.;
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13-15 Oct. 2003 Page(s):380 - 386
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9. **Mixed integer/LMI programs for low-level path planning**
Prasanth, R.K.; Boskovic, J.D.; Mehra, R.K.;
American Control Conference, 2002, Proceedings of the 2002
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Volume 2, 24-27 Oct. 1999 Page(s):1317 - 1321 vol.2
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 Parallel and Distributed Systems, IEEE Transactions on
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 Rajamony, R.; Cox, A.L.;
 Parallel Architectures and Compilation Techniques., 1997. Proceedings. 1997 International Confer
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Knowledge and Data Engineering, IEEE Transactions on
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Digital Object Identifier 10.1109/TKDE.2004.85
Full Text: PDF(184 KB) IEEE JNL
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2. **Memory-efficient and fast enumeration of global states**
Andrzejak, A.;
Information Visualization, 2003. IV 2003. Proceedings. Seventh International Conference on
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1 Optimal instruction scheduling using integer programming

Kent Wilken, Jack Liu, Mark Heffernan
May 2000 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation PLDI '00**, Volume 35 Issue 5
Publisher: ACM Press

Full text available: pdf(830.94 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new approach to local instruction scheduling based on integer programming that produces optimal instruction schedules in a reasonable time, even for very large basic blocks. The new approach first uses a set of graph transformations to simplify the data-dependency graph while preserving the optimality of the final schedule. The simplified graph results in a simplified integer program which can be solved much faster. A new integer-programming formulation is then applie ...

2 Exploiting idle floating-point resources for integer execution

S. Subramanya Sastry, Subbarao Palacharla, James E. Smith
May 1998 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1998 conference on Programming language design and implementation PLDI '98**, Volume 33 Issue 5
Publisher: ACM Press

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings, index terms

In conventional superscalar microarchitectures with partitioned integer and floating-point resources, all floating-point resources are idle during execution of integer programs. Palacharla and Smith [26] addressed this drawback and proposed that the floating-point subsystem be augmented to support integer operations. The hardware changes required are expected to be fairly minimal.To exploit these idle floating resources, the compiler must identify integer code that can be profitably offloaded to ...

3 A guide to recent advances in integer programming methods

Mary F. McGuire
January 1971 **Proceedings of the 1971 26th annual conference**
Publisher: ACM Press

Full text available: pdf(605.65 KB) Additional Information: full citation, abstract, references, index terms

This paper is intended to be a guide to the reader interested in new developments in integer programming methods over the past six years. Advances in dual, primal, enumerative and group theoretic procedures are surveyed in an attempt to bring together work that has been scattered over many journals at different times.

Keywords: Asymptotic algorithm, Branch and bound, Cutting planes, Diophantine equations, Direct search, Group-theoretic methods, Implicit enumeration, Integer programming, Knapsack problem, Modular representation, Primal methods

4 On the parallel complexity of integer programming

X. Deng

March 1989 **Proceedings of the first annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

Full text available: pdf(728.70 KB) Additional Information: full citation, citings, index terms

5 Improved fast integer sorting in linear space

Yijie Han

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(358.04 KB) Additional Information: full citation, abstract, references, citings, index terms

We present improved fast deterministic algorithm for integer sorting in linear space. Our algorithm sorts *n* integers in linear space in &Ogr;(*n* log log *n* log log log *n*) time. This improves the &Ogr;(*n*(log log *n*)$^{3/2}$) time bound given in [6]. When the *n* integers in {0,1, ..., *m* - 1} to be sorted satisfying log *m* ⪈(log *n*)^2+ϵ, 0 < ϵ < 1, the time complexity for sorting ...

6 Finding smooth integers in short intervals using CRT decoding

Dan Boneh

May 2000 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(712.12 KB) Additional Information: full citation, references, citings, index terms

7 An Investigation of Some Computational Aspects of Integer Programming

A. V. Srinivasan

October 1965 **Journal of the ACM (JACM)**, Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(662.18 KB) Additional Information: full citation, references, index terms

8 Efficient parallel algorithms for some integer problems

Weixiong Zhang, Zhaofang Wen

April 1991 **Proceedings of the 19th annual conference on Computer Science**

Publisher: ACM Press

Full text available: pdf(697.05 KB) Additional Information: full citation, references

Keywords: EREW PRAM, bucket sort, general integerpacking, graph adjacency-list, integer element distinctness, integer max gap, integer set problems, parallel algorithm

9 Parallel integer sorting is more efficient than parallel comparison sorting on exclusive write PRAMs
Yijie Han, Xiaojun Shen
January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics
Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings, index terms

10 Best approximate circles on integer grids
M. D. McIlroy
October 1983 **ACM Transactions on Graphics (TOG)**, Volume 2 Issue 4
Publisher: ACM Press
Full text available: pdf(1.34 MB) Additional Information: full citation, references, citings, index terms, review

11 Improved parallel integer sorting without concurrent writing
Susanne Albers, Torben Hagerup
September 1992 **Proceedings of the third annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics
Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms

We show that n integers in the range 1..n can be stably sorted on an EREW PRAM using O ((log n)1/2) time, O(n(log n)1/2(log log n)1/2) operations and O(n) space. In addition, we are able to stably sort n integers in the range 1..n

12 The Omega test: a fast and practical integer programming algorithm for dependence analysis
William Pugh
August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

13 A lower bound for integer greatest common divisor computations
Yishay Mansour, Baruch Schieber, Prasoon Tiwari
April 1991 **Journal of the ACM (JACM)**, Volume 38 Issue 2
Publisher: ACM Press
Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, index terms, review

It is proved that no finite computation tree with operations { +, -, *, /, mod, < } can decide whether the greatest common divisor (gcd) of a and b is one, for all pairs of integers a and b. This settles a problem posed by Gro¨tschel et al. Moreover, if the constants explicitly involved in any operation performed in the tree are restricted to be "0"

and "1" (and any other constant must be comp ...

Keywords: floor operation, greatest common devisor, lower bound, mod operation, truncation

14 Algorithms for Gaussian integer arithmetic

B. F. Caviness, G. E. Collins

August 1976 **Proceedings of the third ACM symposium on Symbolic and algebraic computation**

Publisher: ACM Press

Full text available: pdf(752.20 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper new algorithms are given for Gaussian integer division and the calculation of the greatest common divisor of two Gaussian integers. Empirical tests show that the new gcd algorithm is up to 5.39 times as fast as a Euclidean algorithm using the new division algorithm.

15 Session 4A: Time-space tradeoff lower bounds for integer multiplication and graphs of arithmetic functions

Martin Sauerhoff, Philipp Woelfel

June 2003 **Proceedings of the thirty-fifth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(372.53 KB) Additional Information: full citation, abstract, references, index terms

We prove exponential size lower bounds for nondeterministic and randomized read-*k* BPs as well as a time-space tradeoff lower bound for unrestricted, deterministic multi-way BPs computing the middle bit of integer multiplication. The lower bound for randomized read-*k* BPs is superpolynomial as long as the error probability is superpolynomially small. For polynomially small error, we have a polynomial upper bound on the size of approximating read once BPs for this function. The lower ...

Keywords: branching program, hash class, integer multiplication, lower bound, random access machine, time-space tradeoff

16 New sufficient optimality conditions for integer programming and their application

J. M. Fleisher, R. R. Meyer

May 1978 **Communications of the ACM**, Volume 21 Issue 5

Publisher: ACM Press

Full text available: pdf(713.30 KB) Additional Information: full citation, abstract, references, index terms

The purpose of this report is to present a new class of sufficient optimality conditions for pure and mixed integer programming problems. Some of the sets of sufficient conditions presented can be thought of as generalizations of optimality conditions based on primal-dual complementarity in linear programming. These sufficient conditions are particularly useful for the construction of difficult integer programming problems with known optimal solutions. These problems may then be used to tes ...

Keywords: Kuhn-Tucker conditions, greatest common divisor, integer programming, optimality conditions, test problem construction

17 Model-checking concurrent systems with unbounded integer variables: symbolic

representations, approximations, and experimental results
Tevfik Bultan, Richard Gerber, William Pugh
July 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(467.20 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Model checking is a powerful technique for analyzing large, finite-state systems. In an infinite state system, however, many basic properties are undecidable. In this article, we present a new symbolic model checker which conservatively evaluates safety and liveness properties on programs with unbounded integer variables. We use Presburger formulas to symbolically encode a program's transition system, as well as its model-checking computations. All fixpoint calculations are executed symbol ...

Keywords: Presburger arithmetic, abstract interpretation, symbolic model checking

18 Polynomial-Time Aggregation of Integer Programming Problems
Ravindran Kannan
January 1983 **Journal of the ACM (JACM)**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(548.81 KB) Additional Information: full citation, references, index terms

19 Static analysis yields efficient exact integer arithmetic for computational geometry
Steven Fortune, Christopher J. Van Wyk
July 1996 **ACM Transactions on Graphics (TOG)**, Volume 15 Issue 3
Publisher: ACM Press
Full text available: pdf(1.91 MB) Additional Information: full citation, references, citings, index terms

Keywords: adaptive precision, arithmetic, efficiency, exact integer arithmetic, geometric primitives, geometry, preprocessing, robustness

20 Rendering cubic curves and surfaces with integer adaptive forward differencing
S.-L. Chang, M. S. R. Rocchetti
July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques SIGGRAPH '89**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: pdf(887.33 KB) Additional Information: full citation, abstract, references, citings, index terms

For most compute environments, adaptive forward differencing is much more efficient when performed using integer arithmetic than when using floating point. Previously low precision integer methods suffered from serious precision problems due to the error accumulation inherent to forward differencing techniques. This paper proposes several different techniques for implementing adaptive forward differencing using integer arithmetic, and provides an error analysis of forward differencing which is u ...

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1 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aa Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely | and flexible processor. The latest graphics architectures provide tremendous memory bandwidth computational horsepower, with fully programmable vertex and pixel processing units that supp operations up to full IEEE floating point precision. High level languages have emerged for graphi hardware, making this computational power accessible. Architecturally, GPUs are highly parallel

2 Superscalar design: Cherry: checkpointed early resource recycling in out-of-order microprc

José F. Martínez, Jose Renau, Michael C. Huang, Milos Prvulovic, Josep Torrellas

November 2002 **Proceedings of the 35th annual ACM/IEEE international symposium on Microarchitecture**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.40 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terr

This paper presents *CHeckpointed Early Resource RecYcling (Cherry)*, a hybrid mode of executio on ROB and checkpointing that decouples resource recycling and instruction retirement. Resourc recycled early, resulting in a more efficient utilization. Cherry relies on state checkpointing and r service exceptions for instructions whose resources have been recycled. Cherry leverages the RC not require in-order execution as a fallback mechanism, (2) allow memory re ...

3 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this c offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or combining the effects of tens to hundreds of rendering passes. Today, almost every new comput with graphics hardware capable of interactively executing shaders of thousands to tens of thous

instructions. This course has been redesigned to address today's real-time shading capabili ...

4 Resource sharing in hierarchical synthesis
Oliver Bringmann, Wolfgang Rosenstiel
November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-design**
Publisher: IEEE Computer Society
Full text available: pdf(80.14 KB) Publisher Site
Additional Information: full citation, abstract, references, citings, index terr

This paper presents a new approach to hierarchical high-level synthesis with respect to internal r transfer structures of complex components. Entire subdesigns can efficiently be used as comple> components at a higher hierarchical level of the design. After synthesis, the calculated schedule subdesign is added to its register-transfer component model. This enables the sharing of unused subcomponents across different hierarchical levels of the design. Especially, subcomponents of a

Keywords: High-Level Synthesis, Resource Sharing, Hierarchical Synthesis

5 A unified approach to approximating resource allocation and scheduling
Amotz Bar-Noy, Reuven Bar-Yehuda, Ari Freund, Joseph (Seffi) Naor, Baruch Schieber
September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5
Publisher: ACM Press
Full text available: pdf(191.59 KB) Additional Information: full citation, abstract, references, citings, index terr

We present a general framework for solving resource allocation and scheduling problems. Given resource of fixed size, we present algorithms that approximate the maximum throughput or the loss by a constant factor. Our approximation factors apply to many problems, among which are: time scheduling of jobs on parallel machines, (ii) bandwidth allocation for sessions between two (iii) general caching, (iv) dynamic storage allocation, and (v) bandwidth allocation on opti ...

Keywords: Approximation algorithms for NP-hard problems, dynamic storage allocation, genera resource allocation, scheduling

6 Papers: auctions and mechanism design: Computationally-efficient combinatorial auctions resource allocation in weakly-coupled MDPs
Dmitri Dolgov, Edmund Durfee
July 2005 **Proceedings of the fourth international joint conference on Autonomous agent multiagent systems AAMAS '05**
Publisher: ACM Press
Full text available: pdf(440.42 KB) Additional Information: full citation, abstract, references, index terms

The capabilities of an autonomous agent are often determined by the resources that are availabl We examine the problem of allocating scarce resources among multiple self-interested agents, o in complex, stochastic environments (modeled as MDPs), where the value of a particular resourc to an agent is the expected payoff of the best control policy the agent can implement using thes resources. Combinatorial auctions are popular mechanisms for allocating resource bundles amo

Keywords: combinatorial auctions, distributed implementation, generalized Vickrey auctions, m decision processes

7 Dynamically Controlled Resource Allocation in SMT Processors
Francisco J. Cazorla, Alex Ramirez, Mateo Valero, Enrique Fernandez
December 2004 **Proceedings of the 37th annual IEEE/ACM International Symposium on**

Microarchitecture MICRO 37
Publisher: IEEE Computer Society
Full text available: pdf(237.78 KB) Additional Information: full citation, abstract, citings

SMT processors increase performance by executing instructions from several threads simultaneo These threads use the resources of the processor better by sharing them but, at the same time, are competing for these resources. The way critical resources are distributed among threads det the final performance. Currently, processor resources are distributed among threads as determir fetch policy that decides which threads enter the processor to compete for resources. Howe ...

8 Efficient fault tolerant algorithms for resource allocation in distributed systems
Manhoi Choy, Ambuj K. Singh
July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of compu**
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terr

Solutions to resource allocation problems in distributed systems are examined with respect to th measures of response time, message complexity, and failure locality. Response time measures t takes for an algorithm to respond to the requests of a process, message complexity measures th of messages sent and received by a process, and failure locality characterizes the size of the net is affected by the failure of a single process. ...

9 Prioritized resource allocation for stressed networks
Cory C. Beard, Victor S. Frost
October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5
Publisher: IEEE Press
Full text available: pdf(253.05 KB) Additional Information: full citation, abstract, references, index terms

Overloads that occur during times of network stress result in blocked access to all users, indepei importance. These overloads can occur because of degraded resource availability or abnormally demand. Public broadband networks must dynamically recognize some multimedia connections a greater importance than others and allocate resources accordingly. A new approach to connectic admission control is proposed that uses an upper limit policy to optimize the admission of conne

Keywords: Computer network performance, resource management

10 Toward kilo-instruction processors
Adrián Cristal, Oliverio J. Santana, Mateo Valero, José F. Martínez
December 2004 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 1 Is
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, index terms

The continuously increasing gap between processor and memory speeds is a serious limitation tc performance achievable by future microprocessors. Currently, processors tolerate long-latency n operations largely by maintaining a high number of in-flight instructions. In the future, this may supporting many hundreds, or even thousands, of in-flight instructions. Unfortunately, the tradit approach of scaling up critical processor structures to provide such support is impractica ...

Keywords: Memory wall, instruction-level parallelism, kilo-instruction processors, multicheckpo

11 Resource allocation between persistent and transient flows
Supratim Deb, Ayalvadi Ganesh, Peter Key
April 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 2
Publisher: ACM Press

Full text available: pdf(489.03 KB) Additional Information: full citation, abstract, references, index terms

The flow control algorithms currently used in the Internet have been tailored to share available c between users on the basis of the physical characteristics of the network links they use rather th characteristics of their applications. However, real-time applications typically have very different requirements from file transfer or Web browsing, and treating them identically can result in a pe of poor quality of service even when adequate bandwidth is available. This is the ...

Keywords: bandwidth allocation, decentralized control, service differentiation, shortest process weighted processor sharing

12 The NTree: a two dimension partial order for protection groups

Ravinderpal S. Sandhu

May 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings, index terr

The benefits of providing access control with groups of users rather than with individuals as the granularity are well known. These benefits are enhanced if the groups are organized in a subgro order. A class of such partial orders, called ntrees, is defined by using a forest of rooted trees or rooted trees as basic partial orders and combining these by refinement. Refinement explodes an group into a partially ordered ntree of new groups while maintaining ...

13 A unified approach to approximating resource allocation and scheduling

Amotz Bar-Noy, Reuven Bar-Yehuda, Ari Freund, Joseph Naor, Baruch Schieber

May 2000 **Proceedings of the thirty-second annual ACM symposium on Theory of comput**

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

Keywords: bandwidth allocation, interval graphs, interval scheduling, resource allocation, schec scheduling with release times and deadlines

14 Adaptive task resources allocation in multi-agent systems

S. Shaheen Fatima, Michael Wooldridge

May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Publisher: ACM Press

Full text available: pdf(239.40 KB) Additional Information: full citation, abstract, references, citings, index terr

In this paper, we present an adaptive organizational policy for multi-agent systems called \acro{ \acro{trace} allows a collection of multi-agent organizations to dynamically allocate tasks and re between themselves in order to efficiently process an incoming stream of task requests. \acro{tı intended to cope with environments in which tasks have time constraints, and environments tha subject to load variations. \acro{trace} is made up of two key elements: the tas ...

15 Dynamically allocating processor resources between nearby and distant ILP

Rajeev Balasubramonian, Sandhya Dwarkadas, David H. Albonesi

May 2001 **ACM SIGARCH Computer Architecture News , Proceedings of the 28th annual international symposium on Computer architecture ISCA '01**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(998.02 KB) Additional Information: full citation, abstract, references, citings, index terr

Modern superscalar processors use wide instruction issue widths and out-of-order execution in o increase instruction-level parallelism (ILP). Because instructions must be committed in order so

guarantee precise exceptions, increasing ILP implies increasing the sizes of structures such as th file, issue queue, and reorder buffer. Simultaneously, cycle time constraints limit the sizes of the structures, resulting in conflicting design requirements.

In ...

16 Software pipelining showdown: optimal vs. heuristic methods in a production compiler

John Ruttenberg, G. R. Gao, A. Stoutchinin, W. Lichtenstein

May 1996 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1996 conference on Programming language design and implementation PLDI '96**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terr

This paper is a scientific comparison of two code generation techniques with identical goals --- g of the best possible software pipelined code for computers with instruction level parallelism. Bot variants of *modulo scheduling*, a framework for generation of software pipelines pioneered by Ra Glaser [RaG181], but are otherwise quite dissimilar.One technique was developed at Silicon Gra is used in the MIPSpro compiler. This is the production compiler for SGI's s ...

17 Portable resource control in Java

Walter Binder, Jane G. Hulaas, Alex Villazón

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on oriented programming, systems, languages, and applications OOPSLA '01**, Vo Issue 11

Publisher: ACM Press

Full text available: pdf(307.08 KB) Additional Information: full citation, abstract, references, citings, index terr

Preventing abusive resource consumption is indispensable for all kinds of systems that execute u mobile coee, such as mobile object sytems, extensible web servers, and web browsers. To imple required defense mechanisms, some support for resource control must be available: accounting limiting the usage of physical resources like CPU and memory, and of logical resources like threa is the predominant implementation language for the kind of systems envisaged here, even th ...

Keywords: Java, bytecode rewriting, micro-kernels, mobile object systems, resource control, se

18 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on pro diagrams are often used to obtain a better understanding of the execution of the application. Th visualization tool we use is Poet, an event tracer developed at the University of Waterloo. Howe diagrams are often very complex and do not provide the user with the desired overview of the a In our experience, such tools display repeated occurrences of non-trivial commun ...

19 Resource allocation in a high clock rate microprocessor

Michael Upton, Thomas Huff, Trevor Mudge, Richard Brown

November 1994 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedi the sixth international conference on Architectural support for programmir languages and operating systems ASPLOS-VI**, Volume 29 , 28 Issue 11 , 5

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terr

This paper discusses the design of a high clock rate (300MHz) processor. The architecture is des and the goals for the design are explained. The performance of three processor models is evalua trace-driven simulation. A cost model is used to estimate the resources required to build process varying sizes of on-chip memories, in both single and dual issue models. Recommendations are made to increase the effectiveness of each of the models.

Keywords: decoupled architecture, floating point latencies, nonblocking cache, pipelining, prefe resource allocation, superscalar

20 Distributed FIFO allocation of identical resources using small shared space



Michael J. Fischer, Nancy A. Lynch, James E. Burns, Allan Borodin

January 1989 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume
Publisher: ACM Press
Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, citings, index terr

We present a simple and efficient algorithm for the FIFO allocation of k identical resources amon asynchronous processes that communicate via shared memory. The algorithm simulates a share but uses exponentially fewer shared memory values, resulting in practical savings of time and sp well as program complexity. The algorithm is robust against process failure through unannounce stopping, making it attractive also for use in an environment of processes of wide ...

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1 Algorithms for the computation of all Mathieu functions of integer orders
Fayez A. Alhargan
September 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(125.63 KB) Additional Information: full citation, abstract, references, index terms

The article presents methods for the computation of all Mathieu functions of integer order, whic range of n and h; previous algorithms were limited to small values of n. The algorithms are give detail to enable straightforward implementation. The algorithms can handle a large range of the and the parameter h (0-4n).

Keywords: Hill's determinant, Mathieu characteristic determinant, Mathieu characteristic numb coefficients, Mathieu differential equation, Mathieu functions, elliptic cordinates, wave equation

2 Existential second-order logic over graphs: Charting the tractability frontier
Georg Gottlob, Phokion G. Kolaitis, Thomas Schwentick
March 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 2
Publisher: ACM Press
Full text available: pdf(409.27 KB) Additional Information: full citation, abstract, references, index terms

Fagin's theorem, the first important result of descriptive complexity, asserts that a property of g and only if it is definable by an existential second-order formula. In this article, we study the co evaluating existential second-order formulas that belong to *prefix classses* of existential second- a prefix class is the collection of all existential second-order formulas in prenex normal form suc order and the first-order quan ...

Keywords: Existential second-order logic, NP-complete problems, finite model theory, graph co constraints, prefix classes

3 The Expressiveness of Simple and Second-Order Type Structures
Steven Fortune, Daniel Leivant, Michael O'Donnell
January 1983 **Journal of the ACM (JACM)**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(2.01 MB) Additional Information: full citation, references, citings, index terms

4 Numbering matters: first-order canonical forms for second-order recursive types

Nadji Gauthier, François Pottier
September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN internatior on Functional programming ICFP '04**, Volume 39 Issue 9
Publisher: ACM Press
Full text available: pdf(173.08 KB) Additional Information: full citation, abstract, references, index terms

We study a type system equipped with universal types and equire-cursive types, which we refer show that type equality may be decided in time O(*n*log *n*), an improvement over the previous kr (n^2). In fact, we show that two more general problems, namely entailment of type equations an may be decided in time O(*n*log *n*), a new result. To achieve this bound, we associate, with every
Keywords: equality, polymorphism, recursive types, unification

5 Existential second-order logic over strings

Thomas Eiter, Georg Gottlob, Yuri Gurevich
January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1
Publisher: ACM Press
Full text available: pdf(2.14 MB) Additional Information: full citation, abstract, references, citings, index

Existential second-order logic (ESO) and monadic second-order logic(MSO) have attracted much and computer science. ESO is a much expressive logic over successor structures than MSO. How known about the relationship between MSOand syntatic fragments of ESO. We shed light on this completely characterizing this relationship for the prefix classes of ESO over strings, (i.e., finite structures). Moreover, we determine the complexity of model ...

Keywords: NP, S1S, decision problem, descriptive complexity, existential fragment, finite mode satisfiability, finite words, model checking, prefix classes, regular languages, second-order logic,

6 Non-liouvillian solutions for second order Linear ODEs

L. Chan, E. S. Cheb-Terrab
July 2004 **Proceedings of the 2004 international symposium on Symbolic and algebraic**
Publisher: ACM Press
Full text available: pdf(166.79 KB) Additional Information: full citation, abstract, references, index terms

There exist sound literature and algorithms for computing Liouvillian solutions for the important ODEs with rational coefficients. Taking as sample the 363 second order equations of that type fo book, for instance, 51% of them admit Liouvillian solutions and so are solvable using Kovacic's a other hand, special function solutions not admitting Liouvillian form appear frequently in mather but there are not so general algorithms for co ...

Keywords: hypergeometric solutions, linear ordinary differential equations, non-Liouvillian solu

7 A Complete Mechanization of Second-Order Type Theory

Tomasz Pietrzykowski
April 1973 **Journal of the ACM (JACM)**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, citings, index

A generalization of the resolution method for higher order logic is presented. The languages acc method are phrased in a theory of types of order w (all finite types)—including the &lgr;-operatc functors, and quantifiers. The resolution method is, of course, a machine-oriented theorem sear

based on refutation. In order to make this method suitable for higher order logic, it was necessa two sorts of difficulties. ...

8 Second-order mathematical theory of computation

Zohar Manna

May 1970 **Proceedings of the second annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(653.99 KB) Additional Information: full citation, abstract, references, citings, index

In this work we show that it is possible to formalize all properties regularly observed in (determi deterministic) algorithms in second-order predicate calculus. Moreover, we show that for any gi suffices to know how to formalize its 'partial correctness' by a second-order formula in order to f properties by second-order formulas. This result is of special interest since 'partial correctness' h formalized i ...

9 Optimal instruction scheduling using integer programming

Kent Wilken, Jack Liu, Mark Heffernan

May 2000 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2000 conference or language design and implementation PLDI '00**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(830.94 KB) Additional Information: full citation, abstract, references, citings, index

This paper presents a new approach to local instruction scheduling based on integer programmir optimal instruction schedules in a reasonable time, even for very large basic blocks. The new ap set of graph transformations to simplify the data-dependency graph while preserving the optima schedule. The simplified graph results in a simplified integer program which can be solved much integer-programming formulation is then applie ...

10 Integer forward differencing of cubic polynomials: analysis and algorithms

R. Victor Klassen

April 1991 **ACM Transactions on Graphics (TOG)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index

Two incremental cubic interpolation algorithms are derived and analysed. Each is based on a kn interpolation algorithm and modified for third order forward differencing. The tradeoff between c and loss of precision has made forward differencing a method which, although known to be fast, implement. It is shown that there is one particular family of curves which represents the worst c that if a member of this family can be accura ...

Keywords: Be´zier curves, parametric curve plotting

11 Pushdown automata, graphs, ends, second-order logic, and reachability problems

David E. Muller, Paul E. Schupp

May 1981 **Proceedings of the thirteenth annual ACM symposium on Theory of computin**

Publisher: ACM Press

Full text available: pdf(461.44 KB) Additional Information: full citation, abstract, references, index terms

We have discovered a very strong connection between certain areas of theoretical computer scie context-free languages and pushdown automata, tiling problems, cellular automata, and vector and certain concepts from group theory, topology, and second-order logic. We use these concep rather wide class of graphs which we call context-free graphs. Using the results obtained and Ra the monadic second-order theory o ...

12 The computation of eigenvalues and solutions of Mathieu's differential equation for noninte

Randall B. Shirts
September 1993 **ACM Transactions on Mathematical Software (TOMS)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(985.99 KB) Additional Information: full citation, abstract, references, citings, index

Two algorithms for calculating the eigenvalues and solutions of Mathieu's differential equation fo are described. In the first algorithm, Leeb's method is generalized, expanding the Mathieu equat series and diagonalizing the symmetric tridiagonal matrix that results. Numerical testing was us the minimum matrix dimension that must be used to achieve accuracy in the eigenvalue of one method returns a set ...

Keywords: Floquet solutions, Mathieu equation, eigenvalues, noninteger order, numerical softw differential equations

13 The minimised geometric Buchberger algorithm: an optimal algebraic algorithm for integer
Qiang Li, Yi-ke Guo, Tetsuo Ida, John Darlington
July 1997 **Proceedings of the 1997 international symposium on Symbolic and algebraic**
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

14 Algorithm 721; MTIEU1 and MTIEU2: two subroutines to compute eigenvalues and solutio differential equation for noninteger and integer order
Randall B. Shirts
September 1993 **ACM Transactions on Mathematical Software (TOMS)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index

Two FORTRAN routines are described which calculate eigenvalues and eigenfunctions of Mathieu equation for noninteger as well as integer order, MTIEU1 uses standard matrix techniques with c parameterized to give accuracy in the eigenvalue of one part in 1012. MTIEU2 used continued fr and is optimized to give accuracy in the eigenvalue of one part in 1014. The limitations of the al discussed and ...

Keywords: FORTRAN, Floquet solutions, Mathieu equation, eigenvalues, noninteger order, num ordinary differential equations

15 Clarification of Fortran standards—second report
C. Kerpelman
October 1971 **Communications of the ACM**, Volume 14 Issue 10
Publisher: ACM Press
Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings

In 1966, after four years of effort, Fortran became the first programming language standardized States. Since that initial achievement, study and application of the standard specifications have for maintenance of the standards. As the result of work initiated in 1967, an initial set of clarifyi was prepared and this clarification was published in Communications of the ACM in May 1969. Tl continued and has resulted in the preparati ...

Keywords: American National Standard, Basic Fortran, Fortran, language standard clarification, standard interpretation, language standard maintenance, language standard specification, progr standardization, standardization committee

16 Definitional interpreters for higher-order programming languages

John C. Reynolds
August 1972 **Proceedings of the ACM annual conference - Volume 2**
Publisher: ACM Press
Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, citings, index

Higher-order programming languages (i.e., languages in which procedures or labels can occur a: usually defined by interpreters which are themselves written in a programming language based calculus (i.e., an applicative language such as pure LISP). Examples include McCarthy's definitio SECD machine, the Vienna definition of PL/I, Reynolds' definitions of GEDANKEN, and recent un L. Morris and C. Wadsworth. Such definitions can be c ...

Keywords: Applicative language, Closure, Continuation, GEDANKEN, Higher-order function, Int operator, LISP, Lambda calculus, Language definition, Order of application, PAL, Programming la Reference, SECD machine

17 First and second order diffusive methods for rapid, coarse, distributed load balancing (exte

Bhaskar Ghosh, S. Muthukrishnan, Martin H. Schultz
June 1996 **Proceedings of the eighth annual ACM symposium on Parallel algorithms and**
Publisher: ACM Press
Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

18 Algorithm 804: subroutines for the computation of Mathieu functions of integer orders

Fayez A. Alhargan
September 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(87.19 KB) Additional Information: full citation, abstract, references, index terms

Computer subroutines in C++ for computing Mathieu functions of integer orders are described. handle a large range of the order n and the parameter h. Sample test results and graphs are giv

Keywords: Hill's determinant, Mathieu characteristic determinant, Mathieu characteristic numb coefficients, Mathieu differential equation, Mathieu functions, elliptic coordinates, wave equation

19 Partial-order transport service for multimedia and other applications

Paul D. Amer, Christophe Chassot, Thomas J. Connolly, Michel Diaz, Phillip Conrad
October 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 5
Publisher: IEEE Press
Full text available: pdf(1.56 MB) Additional Information: full citation, references, citings, index terms

20 Second-order signature: a tool for specifying data models, query processing, and optimizat

Ralf Hartmut Güting
June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international cc Management of data SIGMOD '93**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(1.38 MB) Additional Information: full citation, references, citings, index terms

Keywords: algebra, data model, extensibility, functional programming, optimization, polymorpl

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Thursday, June 22, 2006

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L6	(integer program$ same resource allocation) and (integer program$ same polynomial)	3
☐	L5	(integer program$ with polynomial) and (solving same integer program$)	9
☐	L4	L3 and search solution	6
☐	L3	integer program$ and polynomial and constraint?	67
☐	L2	andrzejak.in. and integer program$	4
☐	L1	6031984.pn.	1

END OF SEARCH HISTORY

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050265359 A1

L2: Entry 1 of 4 File: PGPB Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050265359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050265359 A1

TITLE: Optimizing switch port assignments

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Drew, Julie Ward	Redwood City	CA	US
Andrzejak, Artur	Berlin		DE

US-CL-CURRENT: 370/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050033844 A1

L2: Entry 2 of 4 File: PGPB Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033844
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050033844 A1

TITLE: Incorporating constraints and preferences for determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/226; 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050021831 A1

L2: Entry 3 of 4 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021831
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021831 A1

TITLE: Determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20050021583 A1

L2: Entry 4 of 4 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20050102594 A1

L4: Entry 1 of 6 File: PGPB May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050102594
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050102594 A1

TITLE: Method for test application and test content generation for AC faults in integrated circuits

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dey, Sujit	San Diego	CA	US
Bai, Xiaoliang	La Jolla	CA	US
Chen, Li	Hillsboro	OR	US
Krstic, Angela	San Diego	CA	US

US-CL-CURRENT: 714/733

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050033844 A1

L4: Entry 2 of 6 File: PGPB Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033844
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050033844 A1

TITLE: Incorporating constraints and preferences for determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/226; 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050021831 A1

L4: Entry 3 of 6 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021831
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021831 A1

TITLE: Determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20050021583 A1

L4: Entry 4 of 6 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 6091424 A

L4: Entry 5 of 6 File: USPT Jul 18, 2000

US-PAT-NO: 6091424
DOCUMENT-IDENTIFIER: US 6091424 A

TITLE: Labeling graphical features of drawings

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Madden; Brendan P.	Berkeley	CA		
Kakoulis; Konstantinos G.	Dallas	TX		
Tollis; Ioannis G.	Plano	TX		

US-CL-CURRENT: 345/619

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 5742814 A

L4: Entry 6 of 6 File: USPT Apr 21, 1998

US-PAT-NO: 5742814
DOCUMENT-IDENTIFIER: US 5742814 A

TITLE: Background memory allocation for multi-dimensional signal processing

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Balasa; Florin	Tustin Ranch	CA		
Catthoor; Francky	Temse			BE
De Man; Hugo	Kessel-lo			BE

US-CL-CURRENT: 707/102; 707/104.1, 717/155

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
SEARCH	280360
SEARCHES	85260
SOLUTION	1326996
SOLN	6981

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20050033844 A1

L5: Entry 1 of 9 File: PGPB Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033844
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050033844 A1

TITLE: Incorporating constraints and preferences for determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/226; 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20050021831 A1

L5: Entry 2 of 9 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021831
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021831 A1

TITLE: Determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050021583 A1

L5: Entry 3 of 9 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20030216951 A1

L5: Entry 4 of 9 File: PGPB Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216951
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030216951 A1

TITLE: Automating resource management for distributed business processes

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ginis, Roman	Elmsford	NY	US
Chandy, K. Mani	La Canada	CA	US

US-CL-CURRENT: 705/8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 6530873 B1

L5: Entry 5 of 9 File: USPT Mar 11, 2003

US-PAT-NO: 6530873
DOCUMENT-IDENTIFIER: US 6530873 B1
** See image for Certificate of Correction **

TITLE: Brachytherapy treatment planning method and apparatus

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Eva K.	Atlanta	GA		

US-CL-CURRENT: 600/1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 6387034 B1

L5: Entry 6 of 9 File: USPT May 14, 2002

US-PAT-NO: 6387034
DOCUMENT-IDENTIFIER: US 6387034 B1

TITLE: Brachytherapy treatment planning method and apparatus

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Eva K.	Atlanta	GA		

US-CL-CURRENT: 600/1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 6374227 B1

L5: Entry 7 of 9 File: USPT Apr 16, 2002

US-PAT-NO: 6374227
DOCUMENT-IDENTIFIER: US 6374227 B1

TITLE: System and method for optimizing the allocation of a resource

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ye; Jian	Quincy	MA		

US-CL-CURRENT: 705/8; 705/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 8. Document ID: US 6321207 B1

L5: Entry 8 of 9 File: USPT Nov 20, 2001

US-PAT-NO: 6321207
DOCUMENT-IDENTIFIER: US 6321207 B1

TITLE: System and method for optimizing the allocation of a resource

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ye; Jian	Quincy	MA		

US-CL-CURRENT: 705/8; 705/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 9. Document ID: US 5742814 A

L5: Entry 9 of 9 File: USPT Apr 21, 1998

US-PAT-NO: 5742814
DOCUMENT-IDENTIFIER: US 5742814 A

TITLE: Background memory allocation for multi-dimensional signal processing

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Balasa; Florin	Tustin Ranch	CA		
Catthoor; Francky	Temse			BE
De Man; Hugo	Kessel-lo			BE

US-CL-CURRENT: 707/102; 707/104.1, 717/155

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20050021583 A1

L6: Entry 1 of 3 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 6374227 B1

L6: Entry 2 of 3 File: USPT Apr 16, 2002

US-PAT-NO: 6374227
DOCUMENT-IDENTIFIER: US 6374227 B1

TITLE: System and method for optimizing the allocation of a resource

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ye; Jian	Quincy	MA		

US-CL-CURRENT: 705/8; 705/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 6321207 B1

L6: Entry 3 of 3 File: USPT Nov 20, 2001

US-PAT-NO: 6321207
DOCUMENT-IDENTIFIER: US 6321207 B1

TITLE: System and method for optimizing the allocation of a resource

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ye; Jian	Quincy	MA		

US-CL-CURRENT: 705/8; 705/7

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
INTEGER	289210
INTEGERS	66051
RESOURCE	115599
RESOURCES	184038
ALLOCATION	79595
ALLOCATIONS	13128
POLYNOMIAL	26924
POLYNOMIALS	8226
PROGRAM$	0
PROGRAM	647542
PROGRAMA	19
((INTEGER PROGRAM$ SAME RESOURCE ALLOCATION) AND (INTEGER PROGRAM$ SAME POLYNOMIAL)).PGPB,USPT.	3

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